



The Particle Beam Physics Laboratory and Pegasus Laboratory at University of California at Los Angeles is seeking applications for one or two postdoctoral research associates in Beam Physics and Accelerator Science. The positions are for two years, renewable for an additional year, subject to availability of funds and mutual desire.

Required qualifications

- Recent Ph.D. degree in experimental Accelerator and Beam Physics
- Preferred experience: advanced accelerators, FELs, familiarity with ultrafast and high power lasers, electron beam diagnostics, high brightness beams
- Required knowledge: beam physics, optics, numerical techniques for data analysis, electronics, vacuum techniques
- General: Excellent oral and written communication skills

Responsibilities

The successful applicant is expected to participate in the vibrant research program of the Pegasus laboratory aiming at developing ultrahigh brightness electron beam sources for a variety of applications. Responsibilities include: taking a leading role in the experiments, operating and managing the relativistic photoinjector beamline, supervising graduate students and preparing research papers for publication and presentations for seminars and conferences.

Ongoing projects include time-resolved electron diffraction and microscopy, dielectric laser acceleration, free-electron laser and inverse free-electron laser interaction, advanced photocathode research and THz-based electron beam manipulation. The group is participating in multi-year large initiatives such as the Gordon and Betty Moore funded ACHIP program and the NSF Science and Technology Centers STROBE and CBB.

More specifically, the new postdocs will be expected to make significant contributions in two particular directions related to the development of novel multi-modality electron scattering instrumentation and to the on-campus laser-based acceleration efforts (DLA and THz generation/acceleration).

To apply, please send a cover letter, curriculum vitae, publication list, and make arrangements for two reference letters to be forwarded to:

Pietro Musumeci

Department of Physics and Astronomy - University of California at Los Angeles

Email: musumeci@physics.ucla.edu

Reviewing applications will start immediately and continue until the positions are filled.